

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE -- REGION SIX

COLVILLE

NATIONAL FOREST

THREE RIVERS

RANGER DISTRICT



DRAWINGS FOR PROPOSED
KETTLE FACE SOUTH
STEWARDSHIP



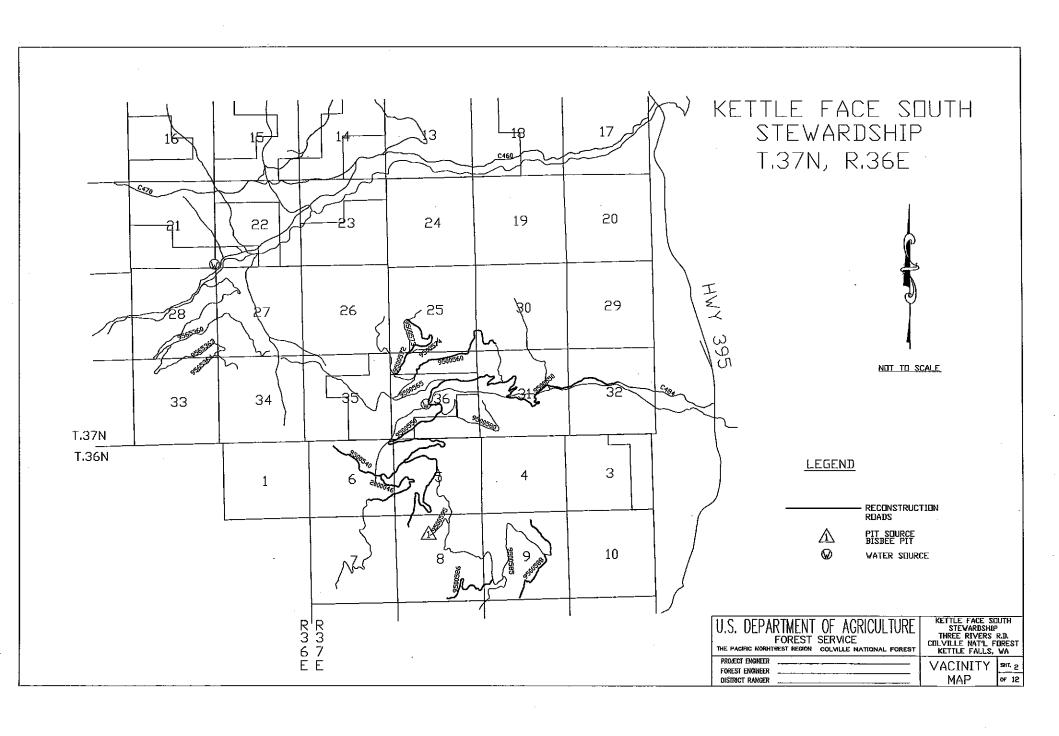
	INDEX TO SHEETS
NO.	DESCRIPTION
1	TITLE SHEET
2	VICINITY, MAP
3	ESTIMATE OF QUANTITIES
4	ROAD TYPICALS
5	CULVERT DETAIL
6	DRAINAGE DETAILS
7	CULVERT LISTING
8	GATE DETAIL
9	PIT PLAN
10-12	WORK LISTS

KEY MAP OF WASHINGTON SHOWING LOCATION OF PROJECT

ROAD NUMBER	LENGTH	RECONST CONST	SHEET NUMBER	CRITICAL VEHICLE	DESIGN VEHICLE
2000046R	1.17	RECONST	10	YARDER	LOG TRUCK
9500540R	1.16	RECONST	10	YARDER	LOG TRUCK
9500550R	7.21	RECONST	11	YARDER	LOG TRUCK
9500560R	1.41	RECONST	11	YARDER	LOG TRUCK
9500572R	0.96	RECONST	11	LOG TRUCK	LOG TRUCK
9500585R	0.61	RECONST	12	YARDER	LOG TRUCK
9500586R	0.73	RECONST	12	LOG TRUCK	LOG TRUCK
9500588R	0.67	RECONST	12	YARDER	LOG TRUCK

TOTAL RECONSTRUCTION 13.92 MILES

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE THE PACIFIC NORHTWEST REGION COLVILLE NATIONAL FOREST	KETTLE FACE SOUTH STEVARDSHIP THREE RIVERS R.D. COLVILLE NAT'L FORES' KETTLE FALLS, WA
PROJECT ENGINEER FOREST ENGINEER DISTRICT RANGER	TITLE SHIT. SHEET OF 1



## Kettle Face South Stewardship

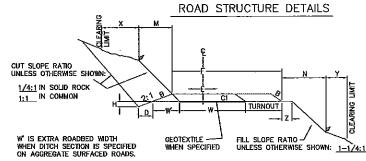
	SHEET	TOTAL SHEETS
Ì	3	12

# ESTIMATE OF QUANTITES

					Proj	ect Road Nu	mber and Le	ngth				
Item Number	lumber	Unit	2000046R 1.17 mi	9500540R 1,16 mi	9500550R 7.21 mi	9500560R 1.41 mi	9500572R 0,96 mi	9500585R 0.61 mi	9500586R 0.73 mi	9500588R 0,67 mi	Project Totals	Remarks
15101	Mobilization	ls	All	All	All	All	All	All	Alí	Al1	All	
15219	Establishing clearing limits	mile	1.17	1,16	0.74	0.65	0,63	0.61	0.66	0.67	6.29	
20103	Clearing and grubbing, disposal of tops and limbs f,l, logs f, and stumps f.	mile	1.17	1.16	0.74	0.65	0.63	0,61	0,66	0.67	6.29	
20402	Roadway excavation, compaction method C, finishing method C.	mile	1,17	1.16	3.30	1,03	0.63	0.61	0,73	0.67	9.30	
20404	Unclassified borrow, compaction method C, finishing method C	су		30	95						125	
20420A	Drainage excavation, type Drain Dip	each	3	2					ı		6	
20420B	Drainage excavation, type Outslope Drain	each	7	. 8	4	7			2	3	31	
32222	Pit run maximum size 6" compaction method H	cy	100	134	50	56			24	49	413	
60211A	18 inch corrugated steel pipe, 0.064 inch thickness	ft		36							36	
62501	Seeding dry method	acre	2,55	2,52	5.9	1.42	1.37	1.33	1.60	1.47	18.16	
65001	Furnish and Install Road Closure Device Type II Gate, Size 16 feet	each		ĺ		1	•				2	

## TYPICAL ROADWAY SECTION

(NOT TO SCALE)



TURNAROUND & T	URNOUT SYMBOLS
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ROAD	M - MANDATORY O - OPTIONAL	STATION M.P.	to STATION M.P.	CONSTRUCTION TOLERANCE	A OUTSLOPE (0) NISLOPE (1) A CROWN (0)	A ROADBED S	2) HDIG		TAPER	LENGTH BY	WIDTH	MDTH	U TENCIH	TAPER	MIN TRAVELED WAY WIDTH	GRADATION	COMPACTED COMPACTED	SLOPE RATIO		SEEDING	and/or	AREA		CLEARING	FEE BEYO TOP CUT TOE FIL	ET DND OF TO OF	ROADWAY BRUSHING
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2000046	М	0+00	61+65	к	1/		2'	1'	15	15'	14'		50'	25'	14		5/	2:1	x	Х	X	X		26			
9500540	М	0+00	61+00																					26'			
9500550	м	0.00	7.21			Ш							Ш									Ш		26			
9500560	М	0+00	74+70			1								Ш	H				Ш			Ш		26'			
9500572	м	0.00	0.96			12									12									26			
9500585	М	3.54	4.15			14									14									26			
9500586	м	0+00	38+75		$\prod$	12	Π		П	П					12									26'			
9500588	М	0+00	35+50	1	1	14	ţ	1		ŧ	1	1	1	1	14		1	•	1	•	1	1		26'	Ш		
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#### NOTES

- 1. CURVE WIDENING, WHEN SPECIFIED, SHALL BE ADDED TO INSIDE OF CURVE.
- 2. TAPER LENGTH ON CURVE WIDENING IS LOCATED IN THE CURVE DATA BOX ON THE PLAN SHEETS.
- 3. SEEDING AND/OR MULCHING AREA INCLUDES SECTIONS SHOWN ON TYPICALS AND ALL OTHER AREAS DISTURBED BY CONTRACTOR.
- 4. TURNOUTS AND CURVE WIDENING SHALL BE SURFACED TO SAME DEPTH AS THE TRAVELED WAY AND TO THE DIMENSIONS SPECIFIED IN
- 5. CONSTRUCTION STAKES SHALL BE 0.3 in. THICK X 1.5 in. WIDE X 24 in. LONG, +/- 0.1in. THICKNESS AND THE TOP 2in. TO BE PAINTED RED. CLEARING FLAGGING SHALL BE GLO PINK. STAKES SHALL BE SET ON UPHILL SIDE OF CENTERLINE.
- 6. SLOUGH WIDENING "Z" SHALL BE 1ft. WHERE FILLS ARE 5ft. OR LESS AND 2ft. WHERE FILLS ARE GREATER THAN 5ft.
- 7. ALL DITCHES SHALL BE SLOPED TO DRAIN.
- 8. SEEDING IS NOT REQUIRED WHERE SLOPE RATIOS ARE 1/2:1 OR STEEPER.
- 9. ROADWAY FINISHING FOR ALL ROADS IS METHOD C PER FSSS 204,13
- 10. IN AREAS WHERE DD OR OSD FALL WITHIN A DESIGNATED AGGREGATE SPREAD, PLACE AGGREGATE AS SHOWN IN DRAINAGE DETAIL.

#### FOOTNOTES

- OUTSLOPE ALL ROADS EXCEPT INSLOPE IN DITCHED AREAS AND CULVERT CATCH BASINS UNLESS OTHERWISE SHOWN ON PLANS.
- 2/ AT LOCATIONS SHOWN ON THE DRAWINGS.
- CONSTRUCT ADDITIONAL WIDTH IN ALL AREAS WHERE PLACEMENT OF AGGREGATE IS SHOWN ON THE PLANS
- CLEARING LIMITS SHALL BE ESTABLISHED 4 FROM STAKE NOTES OR 13 FEET FROM CENTERLINE WHICHEVER IS GREATER.
- 5/ DEPTHS AS SHOWN IN THE PLANS

#### ABBREVIATIONS

DD=DRAIN DIP OSD=OUTSLOPE DRAIN

TOR=TURNOUT RIGHT TOL=TURNOUT LEFT

TAR=TURNAROUND RIGHT TAL=TURNAROUND LEFT

CWR=CURVE WIDENING

RIGHT CWL≂CURVE WIDENING

LEFT

LOD=LEADOUT DITCH

WA SHT. 4 OF 12

----=GROUND

---GRADE

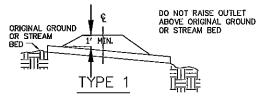
	RTMENT OF FOREST SERV	AGRICULTURE VICE LLE NATIONAL FOREST	KETTLE FACE SO STEWARDSHIP THREE RIVERS R COLVILLE NAT'L FO KETTLE FALLS,	R.D. PREST
Project engineer Forest engineer District ranger			ROAD TYPICAL	SHT. 4

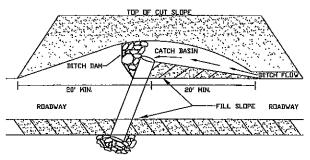
## CULVERT DETAILS

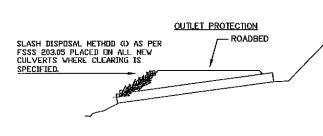
### CULVERT TYPES

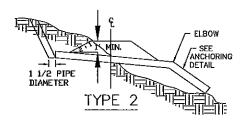
### CATCH BASIN DETAIL AND INLET & OUTLET PROTECTION

FOR ALL NEW TYPE 1, 2 & 3 CULVERT INSTALLATION

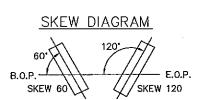


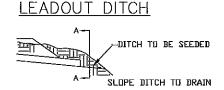


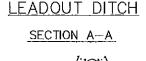




1 1/2 PIPE-DIAMETER





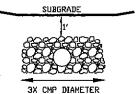


MATERIAL TO BE CULVERT DEPOSITED ON BOTH DIAMETER SIDES OF DITCH



TOP OF CATCHBASIN CUT.

ARMORING CULVERT FILL SLOPES



ARMOR FILL TO 1' BELOW SUBGRADE ELEVATION

RIPRAP CULVERT INLET & DUTLET FOR ENERGY DISSAPATION WHEN DESIGNATED ON PLANS LENGTH = 4 X PIPE DIAMETER -- VIDTH = 3 X PIPE DIAMETER.

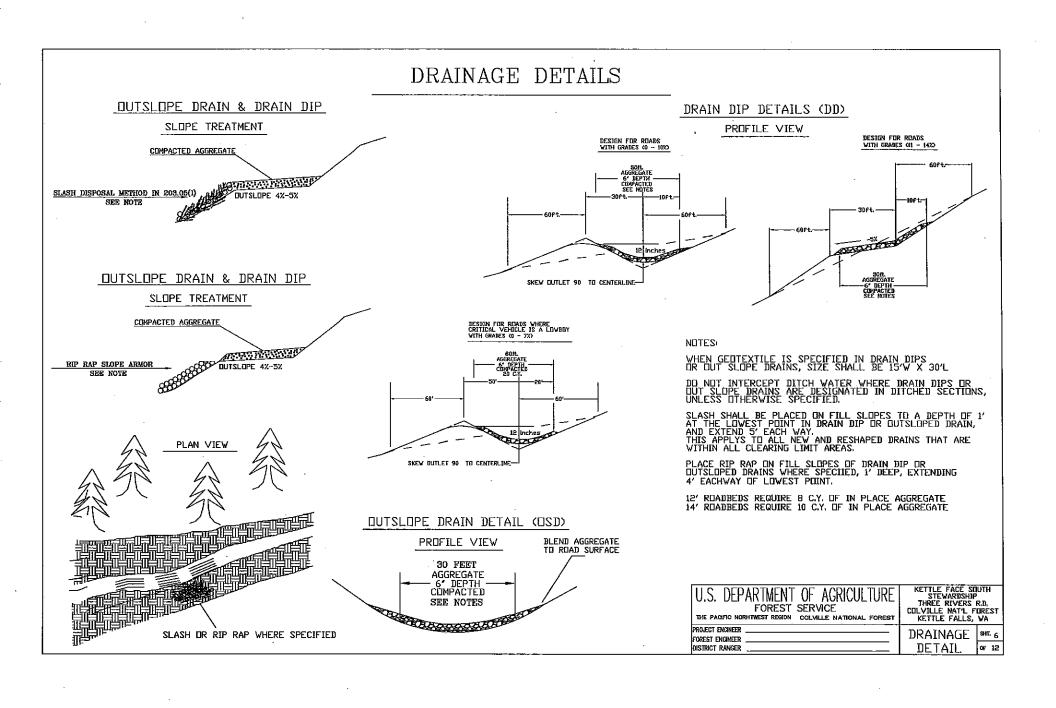
WIDTH = WIDTH OF FILL OR CATCHBASIN

## DEPARTMENT OF AGRICULTURE FOREST SERVICE

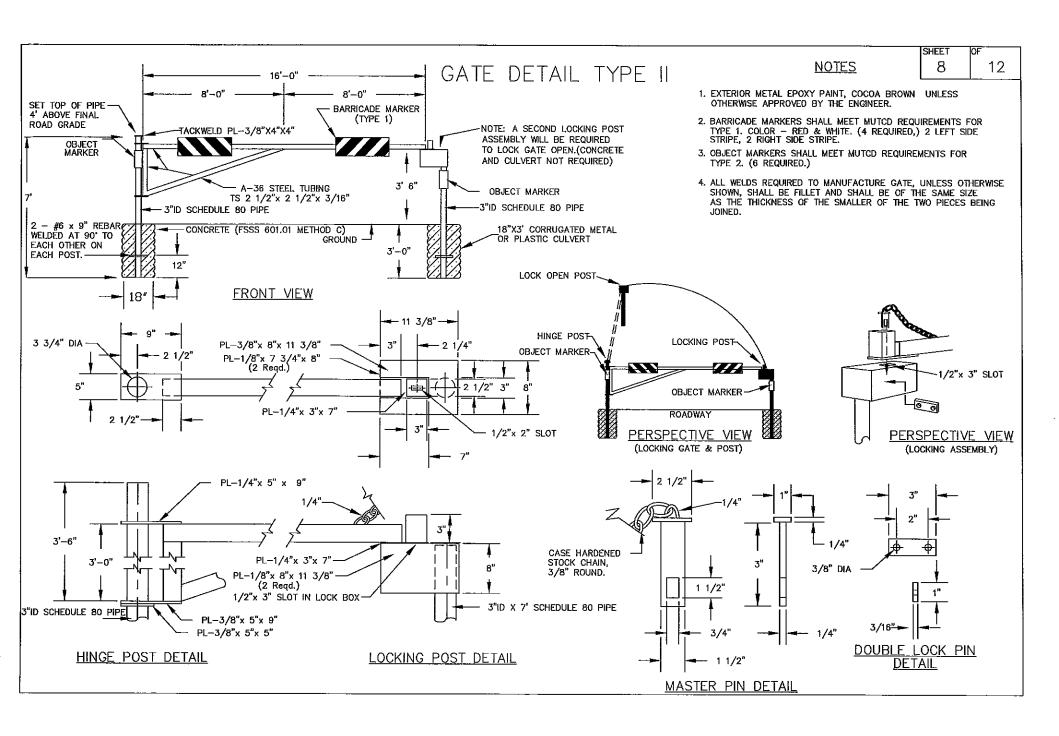
THE PACIFIC NORHTWEST REGION COLVILLE NATIONAL FOREST

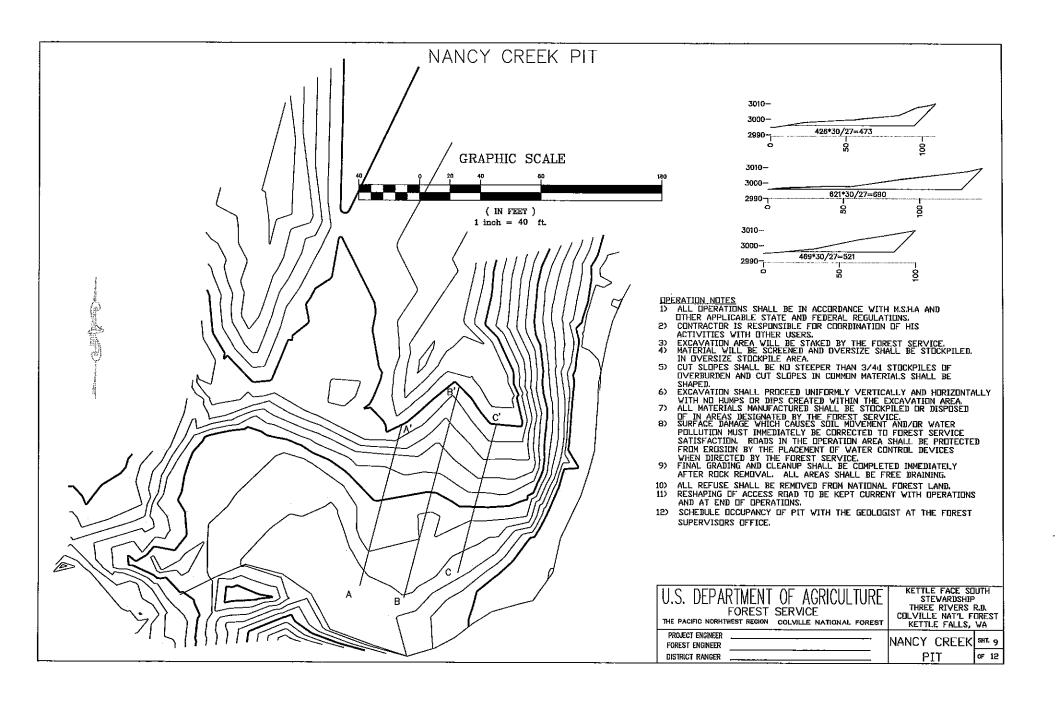
PROJECT ENGINEER FOREST ENGINEER DISTRICT RANGER KETTLE FACE SOUTH STEVARDSHIP THREE RIVERS R.D. COLVILLE NAT'L FOREST KETTLE FALLS, WA

**CULVERT** SHT. 5 DETAIL OF 12



Kettle Face South Stewa	ardship	**************************************					Sheet 7 of 12
	·	CULVE	RT LIST	ING			
DESIGNED	AS BUILT	CORRUGATION & THICKNESS	INST	ALLATIO	N DETAI	LS	GA GAUGE AL ALUMINUM FE STEEL TF TO FIT
STATION OR MILE POST DIAMETER IN INCHES LENGTH IN FEET	STATION DIAMETER IN INCHES LENGTH IN FEET	2 2/3" × 1/2" .064 FE (16 GA.) OR .060 AL (16 GA.)	TYPE	SKEW	COMPACTION METHOD	KING	SLASH DISPOSAL METHOD (1) AS PER FSSS 203.05 SHALL BE PLACED ON ALL CULVERT INSTALLATIONS WHERE CLEARING IS SPECIFIED. REMARKS
Rd 9500540 0+15 18 36		X	1	TF	A	1	





	Kettle Face South Stewardship	WORK SUMMERY	SHEET 10	OF 12
ROAD 2000 STA 0+00 3+60 8+32 10+03 13+39 15+60 32+90 38+00 39+70 41+50 54+50 58+70 61+65	·	ROAD 9500540R STA MP 0+00 0+15	SHEET 10	OF 12
61+65	End establishing clearing limits End clearing and grubbing End blading and shaping 14' roadbed	23+00 Begin placing 4" of aggregate 23+25 Construct OSD 24+10 End placing 4" of aggregate 27+20 Construct OSD 29+20 Construct OSD 46+00 Construct OSD		
		59+00 Construct TAL 59+25 End constructing TOR 61+00 End establishing clearing limits End clearing and grubbing End blading and shaping 14'roadbed EOP		

		Kettle Face South Stewardship	NORK SUMMERY			SHEET	OF
						11	12
ROAD 95	00550R		ROAD 95	00560R			<u> </u>
STA	MP	WORK ITEMS	STA	MP	WORK ITEMS		
		Jct of C484	0+00		Jct of 9500565		
İ		Begin blading and shaping 14' roadbed	2+40		Begin removing earth berms		
	0.73	Begin placing 4" of aggregate			Install Type 2 gate as staked by CO		
	0.74	End placing 4" of aggregate	2+97		End removing earth berms		
	1.74	Begin placing borrow to fill in ruts	13+50		Construct OSD		
l	1.81	End placing borrow	20+15		Begin constructing 14' roadbed		
1	2.50	Begin placing borrow to fill in ruts	23+60		Construct OSD		
	2.56	End placing borrow	40+00		End constructing 14' roadbed		
		End blading and shaping 14' roadbed	40+40		Protect fence and barb wire gate		
	6.47	Begin establishing clearing limits			Begin establishing clearing limits		
		Begin clearing and grubbing			Begin clearing and grubbing		
		Begin constructing 14' roadbed			Begin blading and shaping 14' roadbed		
İ		Construct OSD	43+10		Construct OSD		
0+00	6.61		50+80		Begin constructing TOR		
1+14		Construct OSD	51+05		Construct TAL		
6+40		Construct OSD	51+30		End constructing TOR		
7+75		Reshape existing TAR	51+75		Construct OSD		
11+90		Construct OSD	53+45		Construct OSD		
31+10		Begin constructing TOL	60+43		Construct OSD		
31+35		Construct TAR	65+55		Construct OSD		
31+60		End constructing TOL	68+50		Begin 8' CWL		
31+85		End establishing clearing limits	69+50		End 8' CWL		
		End clearing and grubbing	70.50		Begin 6' CWR		
ł		End constructing 14' roadbed	70+50		End 6'CWR		
1		EOP	74+70		End establishing clearing limits		
l		NI. 4.			End clearing and grubbing		
		Note:	I (I.		End blading and shaping 14' roadbed		
		Underground power lines near or in roadbed. Not sure of or actual location. Lines need to be located before excava-	nepth fion		EOP		
			ROAD 95		WORK ITEMS		
				MP			
				0.00	Jet of 9500565		
			•	0.33	Begin establishing clearing limits		
					Begin clearing and grubbing		
				0.05	Begin blading and shaping 12' roadbed		
İ					Begin constructing TOL		
				ข.ษธ	Construct TAR		
1					End constructing TOL End establishing clearing limits		
		•			End clearing and arubbing		
					End clearing and grubbing		
1					End blading and shaping 12' roadbed	-	

	Kettle Face South Stewardship	WORK SUMMERY	SHEET OF	12
4.14	WORK ITEMS  Jct. tower road protect improvements Begin establishing clearing limits Begin clearing and grubbing Begin blading and shaping 14' roadbed	STA MP 0+00  Jct of 9500585 Begin establishing clearing limits Begin clearing and grubbing Begin constructing 14' roadbed Construct OSD 23+74 Construct OSD 23+30 Begin placing 4" of aggregate 34+50 End placing 4" of aggregate 34+75 Begin constructing TOL 35+00 Construct TAR 35+25 End constructing TOL 35+50 End clearing and grubbing End establishing clearing limits EOP		
DAD 9500586R STA MP 0+00 3+85 8+70 95+30 95+22 98+75	WORK ITEMS  Jet of 9500585  Begin blading and shaping 12' roadbed  Begin establishing clearing limits  Begin clearing and grubbing  Construct DD  Construct OSD  Construct OSD  End establishing clearing limits  End clearing and grubbing  End blading and shaping 12' roadbed  EOP			

FS-7700-18 (11/90)

Timber Sale:	Road Number	
Kettle Face South	2000046	

Prepared By:	Date Prepared:
	6/3/2013

			_	Specified Road Estimate (Timber Sale)	
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$856.43	\$856.43
15219	Establish Clearing Limits	mi	1.17	\$967.64	\$1,132.14
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,l, Logs f, and Stumps f.	mi	1.17	\$1,039.49	\$1,216.20
20402	Roadway excavation, compaction method C, finishing method C	mi	1.17	\$1,713.41	\$2,004.69
20420A	Drainage Excavation, Type Drain Dip	each	3	\$171.34	\$514.02
20420B	Drainage Excavation, Type Outslope Drain	each	7	\$85.67	\$599.69
32222	Pit run maximum size 4 inches, compaction method	су	100	\$17.81	\$1,781.00
62501	Seeding, Dry Method	ac	2.55	\$296.25	\$755.44

Total - Specified Road Cost Estimate \$8,859.61

Timber Sale:	Road Number
Kettle Face South	9500540

Prepared By:	Date Prepared:	
	6/3/2013	

				Specified Road Estimate (Timber Sale)	
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$1,114.62	\$1,114.62
15219	Establish Clearing Limits	mi	1.16	\$967.64	\$1,122.46
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,l, Logs f, and Stumps f.	mi	1.16	\$1,039.49	\$1,205.81
20402	Roadway excavation, compaction method C, finishing method C	mi	1.16	\$1,656.99	\$1,922 <i>.</i> 11
20404	Unclassified borrow, compaction method C, finishing method C	су	30	\$16.63	\$498.90
20420A	Drainage Excavation, Type Drain Dip	each	2	\$171.34	\$342.68
20420B	Drainage Excavation, Type Outslope Drain	each	8	\$85.67	\$685.36
32222	Pit run maximum size 4 inches, compaction method H	су	134	\$15.37	\$2,059.58
60250A	18-inch corrugated steel pipe, .064 inch thickness	ft	36	\$35.64	\$1,283.04
62501	Seeding, Dry Method	ac	2.52	\$296.25	\$746.55
65001	Furnish and Install Road Closure Device Type II Gate, Size 16 feet	each	1	\$2,715.29	\$2,715.29

Total - Specified Road Cost Estimate \$13,696.40

Timber Sale:	Road Number	
Kettle Face South	9500550	

Prepared By:	Date Prepared:
	6/3/2013

				Specified Road Estimate (Timber Sale)	
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$1,056.73	\$1,056.73
15219	Establish Clearing Limits	mi	0.74	\$967.64	\$716.05
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,l, Logs f, and Stumps f.	mi	0.74	\$1,036.22	\$766.80
20402	Roadway excavation, compaction method C, finishing method C	mi	3.30	\$1,713.41	\$5,654.25
20404	Unclassified borrow, compaction method C, finishing method C	су	95	\$13.70	\$1,301.50
20420B	Drainage Excavation, Type Outslope Drain	each	4	\$85.67	\$342.68
32222	Pit run maximum size 4 inches, compaction method H	су	50	\$20.35	\$1,017.50
62501	Seeding, Dry Method	ac	5.90	\$296.25	\$1,747.88

Total - Specified Road Cost Estimate \$12,603.39

FS-7700-18 (11/90)

Timber Sale:	Road Number	
Kettle Face South	9500560	

Prepared By:	Date Prepared:
	6/3/2013

				Specified Road Estimate (Timber Sale)	
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$728.22	\$728.22
15219	Establish Clearing Limits	mi	0.65	\$967.64	\$628.97
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,I, Logs f, and Stumps f.	mi	0.65	\$1,031.44	\$670.44
20402	Roadway excavation, compaction method C, finishing method C	mi	1.03	\$1,713.41	\$1,764.81
20420B	Drainage Excavation, Type Outslope Drain	each	7	\$85.67	\$599.69
32222	Pit run maximum size 4 inches, compaction method H	су	70	\$22.47	\$1,572.90
62501	Seeding, Dry Method	ac	1.42	\$296.25	\$420.68
65001	Furnish and Install Road Closure Device Type II Gate, Size 16 feet	each	1	\$2,715.29	\$2,715.29

Total - Specified Road Cost Estimate \$9,101.00

Timber Sale:	Road Number	
Kettle Face South	9500572	

Prepared By:	Date Prepared:	
	6/3/2013	

				Specified Road Estimate (Timber Sale)		
Item No.	Description	Unit	Quantity	Unit Price	Total \$	
15101	Mobilization	ls	All	\$428.11	\$428.11	
15219	Establish Clearing Limits	mi	0.63	\$967.64	\$609.61	
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,l, Logs f, and Stumps f.	mì	0.63	\$1,036.22	\$652.82	
20402	Roadway excavation, compaction method C, finishing method C	mi	0.63	\$1,713.41	\$1,079.45	
62501	Seeding, Dry Method	ac	1.37	\$296.25	\$405.86	

Total - Specified Road Cost Estimate \$3,175.85

Timber Sale:	Road Number
Kettle Face South	9500585

Prepared By:	Date Prepared:	
	6/3/2013	

		Specified Road Esti (Timber Sale)			
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$284.40	\$284.40
15219	Establish Clearing Limits	mi	0.61	\$967.64	\$590.26
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,l, Logs f, and Stumps f.	mi	0.61	\$1,036.22	\$632.09
20402	Roadway excavation, compaction method C, finishing method C	mi	0.61	\$1,713.41	\$1,045.18
62501	Seeding, Dry Method	ac	1.33	\$296.25	\$394.01

Total - Specified Road Cost Estimate \$2,945.94

Timber Sale:	Road Number
Kettle Face South	9500586

Prepared By:	Date Prepared:
	6/3/2013

					oad Estimate er Sale)
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$473.96	\$473.96
15219	Establish Clearing Limits	mi	0.66	\$967.64	\$638.64
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,I, Logs f, and Stumps f.	mi	0.66	\$1,040.14	\$686.49
20402	Roadway excavation, compaction method C, finishing method C	mi	0.73	\$1,713.41	\$1,250.79
20420A	Drainage Excavation, Type Drain Dip	each	1	\$171.34	\$171.34
20420B	Drainage Excavation, Type Outslope Drain	each	2	\$85.67	\$171.34
32222	Pit run maximum size 4 inches, compaction method H	су	24	\$14.80	\$355.20
60250A	18-inch corrugated metal pipe, .064 inch thickness for steel or .060 inch thickness for aluminum, method A	ft	36	\$35.64	\$1,283.04
62501	Seeding, Dry Method	ac	1.60	\$296.25	\$474.00

Total - Specified Road Cost Estimate \$5,504.80

Timber Sale:	Road Number
Kettle Face South	9500588

Prepared By:	Date Prepared:
_	6/3/2013

				Specified Road Estimate (Timber Sale)	
Item No.	Description	Unit	Quantity	Unit Price	Total \$
15101	Mobilization	ls	All	\$502.80	\$502.80
15219	Establish Clearing Limits	mi	0.67	\$967.64	\$648.32
20103	Clearing and Grubbing, Slash Treatment Methods for Tops and Limbs f,l, Logs f, and Stumps f.	mi	0.67	\$1,030.44	\$690.39
20402	Roadway excavation, compaction method C, finishing method C	mi	0.67	\$1,713.41	\$1,147.98
20420B	Drainage Excavation, Type Outslope Drain	each	3	\$85.67	\$257.01
32222	Pit run maximum size 4 inches, compaction method H	су	55	\$16.70	\$918.50
62501	Seeding, Dry Method	ac	1.47	\$296.25	\$435.49

Total - Specified Road Cost Estimate \$4,600.49